



HARRIS FILTERS CALCIUM SULPHATE

MATERIAL SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company

Product Name: Calcium Sulphate

Company Identification: Harris Filters
42 & 43 Zoar Street
Lower Gornal
Dudley
West Midlands
DY3 2PA, UK
Tel: 01384 253073

2. Composition/Information on ingredients

Alternative Names: Gypsum, E516, Alabaster
Chemical formulae: CaSO_4

Name	CAS No.	EC No.	REACH No
Calcium Sulphate	7778-18-9	231-900-3	01-2119444918-26-XXXX

Purity: Approximately 99% (as Calcium Sulfate Dihydrate)

3. Hazard Identification

Classification according to Regulation (EC) No 1272/2008 (CLP): This substance is not classified as hazardous.

Classification according to directive 67/548/EEC: This substance is not classified as dangerous.

Labelling according to Regulation (EC) No 1272/2008: This product is not labelled according to Regulation (EC) No 1272/2008

Other hazards: No special remarkable hazards. Large quantities of dust may be produced during dry-state pulverisation.

4. First Aid Measures

General Advice: No adverse effects are expected during normal use of the substance, however if any effects do appear the following recommendations apply

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin Contact: If some discomfort appears immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Inhalation	Following inhalation of large quantities of dust remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
Notes for the doctor	Skin-friendly neutral salt. No allergic reactions known. Soluble dust

Most important symptoms and effects, both acute and delayed:

No specific symptoms or effects have been reported.

Indication of any immediate medical attention and special treatment needed:

Not applicable

5. Fire Fighting Measures

Fire extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special hazards from the mixture	None
Advice for firefighters:	Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. No special equipment needed.

6. Accidental Release Measures

Personal Protection:	Ventilate area of leak or spill. Wear appropriate personal protective equipment. Avoid generation of dust. Special danger of slipping by leaking/spilling product.
Environmental precautions	No special environmental measures are necessary
Spillage:	Spillage should be swept up and containerised for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling & Storage

Handling:	No special provisions if the product is used appropriately. Avoid dust dispersal, inhalation of dust particles and eye contact. No special measures needed for fire prevention and the environment.
Storage:	Store in a non-combustible solid container

8. Exposure Controls/Personal Protection

Occupational exposure limits:	As total dust 10 mg/m ³ (8 hr TWA) As respirable dust 4mg/m ³ (8 hr TWA)
Dangerous exposure:	No data available
Respiratory protection	In case of strong dust emission, wear respiratory filters type FFP1

Hand protection:	Gloves to be worn if prolonged contact is anticipated.
Eye protection	Wear chemical safety goggles in situations where contact with the eyes may occur.
Aquatic remarks	Not acutely toxic to fish, invertebrates, algae and microorganisms at the concentrations tested in the studies.
Soil	Not applicable due to ubiquitous nature of calcium and sulphate ions in the environment.

9. Physical & Chemical Properties

Appearance	Powder
Colour	Varies: white, beige, yellow, grey, reddish tinge
Odour	Neutral
pH	Not applicable
Melting point/freezing point	1450C
Boiling point	Not applicable
Density	2.96 gm/ml
Flash point	Not applicable
Flammability	Not applicable
Explosive properties	Not explosive
Self ignition	Not self igniting
Solubility in water	2g/l @ 20C
Oxidising properties	No information available
Decomposition temperature	Into CaSO ₄ x ½ H ₂ O and H ₂ O about 140C Into CaSO ₄ and H ₂ O about 700C Into CaO and SO ₃ about 1000C

10. Stability & Reactivity

Stability	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure
Reactivity	No information available
Hazardous decomposition products	Decomposition takes place from temperatures above 1450C
Conditions to avoid	Avoid contamination by sulphur-reducing bacteria and water under anaerobic conditions.
Incompatible materials	No incompatible materials known

11. Toxicological Information

Acute oral toxicity	LD ₅₀ > 1581 mg/Kg bw (rat OECD 420)
Acute dermal toxicity	No dermal toxicity envisaged due to low potential for absorption
Acute inhalation toxicity	LC ₅₀ >2.61 mg/l (rat OECD 403) Maximum attainable dose
Skin irritation	Not irritating (rabbit OECD 404)
Serious eye irritation	Not irritating (rabbit OECD 405)
Skin sensitisation	Not a skin sensitiser (guinea pig OECD 406)
Mutagenicity	Not considered to be a mutagen
Carcinogenicity	No risk posed by calcium sulphate
Reproductive effects	None identified
STOT single exposure	No organ toxicity observed in acute tests
Aspiration hazard	No aspiration hazard envisaged

12. Ecological Information

A maximum value of 412 mg/l ensures the protection of all aquatic life. Source: Water research Centre – September 1990.

Toxicity to fish	LC50	96 hrs	>79	Mg/l	OECD 203
Toxicity to daphnia	EC50	48 hrs	>79	Mg/l	OECD 202
Toxicity to algae	EC50	72 hrs	>79	Mg/l	OECD 201

Persistence & degradability	Product hydrolyses quickly in the presence of water to calcium and sulphate ions. The individual components are poorly eliminated from water. No photo-chemical elimination.
Bioaccumulative potential	No indication of bioaccumulation potential.
Mobility in soil	Water soluble solid. Natural constitution is soils. If product enters soil, it will be mobile and may contaminate groundwater.
PBT & vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.
Other adverse effects	According to the criteria of the European classification and labelling system, the substance /product has not to be labelled as “dangerous to the environment”.

13. Disposal Consideration

Waste disposal according to EC regulations 75/442/EEC and 91/689/EEC in the corresponding versions covering waste and dangerous waste. The waste is to be kept separate from other types of waste until its recycled.

Product can be further used without restrictions if not subsequently contaminated.

14. Transport Information

The product is not classified as dangerous (nor regulated) for transport under regulations ADR, RID, AND, IMDG, IATA/ICAO

15. Regulatory Information

The product is not classified as dangerous according to 67/548/EEC.
This product is not classed as hazardous according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Harris Filters has compiled the information contained in this data sheet to the best of its own knowledge and of available reliable data.

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